

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A swivel joint system for a cryogenic liquid transfer line, including a cold gas return, comprising a swivel joint device for passage of the cryogenic liquid and a swivel joint device for return of the cold gas, each swivel joint device comprising a conduit including a fixed conduit portion and a rotating conduit portion rotating relative to the fixed conduit portion and rotational guiding means interposed between the fixed and rotating conduit portions, wherein the swivel joint device for return of the cold gas is integrated in the swivel joint device for the passage of the cryogenic liquid and the two swivel joint devices are combined in a single rotational guiding device.

2. (Currently Amended) The swivel joint system according to Claim 1, wherein the comprising a single rotational guiding device is a rotational bearing for the two swivel joint devices.

3. (Currently Amended) The swivel joint system according to Claim 1, including
a central conduit for passage of the cryogenic liquid, an annular cold gas return
conduit coaxially surrounding the central conduit,
an exterior jacket coaxial with the central conduit,
two end flanges between which the exterior jacket is located, wherein the central
conduit, the annular conduit, and the exterior jacket are two axially aligned sections which
rotate with respect to one another,
a rotational bearing located between facing surfaces of parts of the jacket, and
seals located between the facing surfaces of sections of the central and annular
conduits, ~~the rolling rotational~~ bearing and the seals being located in planes which are
substantially parallel.

4. (Previously Amended) The swivel joint system according to Claim 3, including an
annular space between the annular conduit and the exterior jacket filled with a thermally
insulating material in two blocks, each block being located in one of the fixed and rotating
sections of the joint, the two blocks permitting rotational movement between the annular
conduit and the exterior jacket.

5. (Previously Amended) The swivel joint system according to Claim 3, wherein a radially internal wall of the annular conduit is formed by the wall of the central conduit for passage of the cryogenic liquid.

6. (Previously Amended) The swivel joint system according to Claim 5, wherein the seals are respectively located in the central conduit, and in the exterior wall, delimiting the annular conduit.

7. (Previously Amended) The swivel joint system according to Claim 6, wherein the seals include two rings made of a sealing material, placed concentrically in corresponding portions of the central conduit and pressed by a spring.

8. (Currently Amended) The swivel joint system according to Claim 3, wherein the coaxial central conduit and annular conduit have a shared wall.

9. (Previously Presented) The swivel joint system according to claim 2, wherein the rotational guiding device includes a roller bearing.

10. (New) The swivel joint system according to claim 1, wherein
the fixed conduit portion of the passage of the cryogenic liquid and the rotating conduit portion of the of the passage of the cryogenic liquid contact each other only in a plane perpendicular to the axis of the system, and

the fixed conduit portion of the return of the cold gas and the rotating conduit portion of the return of the cold gas contact each other only in a plane perpendicular to the axis of the system.

11. (New) A swivel joint system for a cryogenic liquid transfer line, comprising an arrangement including

- a central conduit for passage of the cryogenic liquid;
- an annular cold gas return conduit coaxially surrounding the central conduit;
- an exterior jacket coaxial with the central conduit;
- an end flange at each axial end of the arrangement by which the system is connected to a flange of the cryogenic liquid transfer line;
- two axially aligned arrangement sections, each having
 - a central conduit section;
 - an annular conduit section; and
 - a jacket section;

the two arrangement sections with the central conduit, annular conduit and jacket sections being rotatable with respect to one another;

a single rotational guiding device located between facing surfaces of the axially aligned jacket sections; and

seals being located between facing surfaces of the central and annular conduit sections;

the facing surfaces and the single rotational guiding device being located in planes which are substantially parallel to one another and perpendicular to a longitudinal axis of the arrangement.